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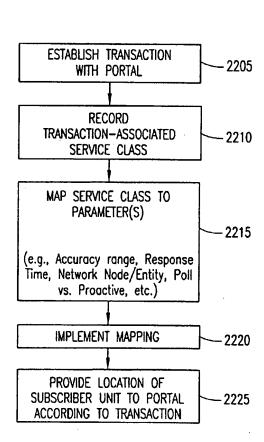
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(54) Title: FACILITATING REALTIME INFORMATION INTEREXCHANGE BETWEEN A TELECOMMUNICATIONS NET-WORK AND A SERVICE PROVIDER

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(57) Abstract: Methods, systems, and arrangements facilitate information interexchange between a telecommunications network and an information service provider. For example, a business-to-business (B2B) engine includes one or more logic modules for and interfacing with the telecommunications network and with the information service provider. engine facilitates the reporting of, e.g., realtime information from the telecommunications network to the information service provider. This realtime information may include subscriber unit location and may be acquired and/or reported based on a mapping data structure in, e.g., the B2B engine. The data structure maps a service class to one or more parameters that dictate or provide guidance with respect to which parameters are relevant, as well as their respective values, and a mechanism for achieving the stipulated parameters. The mechanism may include specific network nodes/entities as well as frequency of acquisition to thereby enable location-tailored content data and/or services to be provided to a subscriber.





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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L29/06 G06F17/30

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B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H04L} & \mbox{G06F} & \mbox{H04Q} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 002 936 A (HAYES STEPHEN ET AL) 14 December 1999 (1999-12-14) column 4, line 41 -column 6, line 50	1-26
X	WO 00 27143 A (SIGNALSOFT CORP) 11 May 2000 (2000-05-11) page 14, line 31 -page 15, line 25	1-26
X	WO 00 04730 A (SIGNALSOFT CORP) 27 January 2000 (2000-01-27) page 2, line 1 -page 4, line 28 page 7, line 28 -page 8, line 32; figures 1-4	1-26

members are listed in annex.
blished after the international filing date and not in conflict with the application but and the principle or theory underlying the cular relevance; the claimed invention ered novel or cannot be considered to the step when the document is taken alone cular relevance; the claimed invention ered to involve an inventive step when the bined with one or more other such docubination being obvious to a person skilled
the international search report
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PCT/US 02/159	69

egory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	U0 00 70010 A (MOTODOLE 700)	
	WO 00 72610 A (MOTOROLA INC) 30 November 2000 (2000-11-30)	1-22
	page 3, line 7 -page 3, line 13	23-26
	page 9, line 3 -page 12, line 6; figures	
	1-4	
	US 6 078 818 A (KINGDON CHRISTOPHER H ET	1,2,5-7
	AL) 20 June 2000 (2000-06-20)	1,2,5-7
	column 3, line 15 -column 3, line 51	12,23
	column 4, line 17 -column 4, line 43	
	column 5, line 28 -column 6, line 65 column 7, line 22 -column 7, line 47;	
	figures 1-4	
	WO 01 31965 A (ERICSSON TELEFON AB L M; JARIC PETER (SE); GABRIELSSON JAN (SE);	1-26
	W) 3 May 2001 (2001-05-03)	
	page 3, line 22 -page 4, line 19	
	page 5, line 1 -page 8, line 6	į
	page 9, line 26 -page 10, line 28 page 11, line 11 -page 11, line 19;	
	figures 1-4	
,	LIO 02 02002 A (NOVIA CODD.)	1.00
X	WO 02 03093 A (NOKIA CORP) 10 January 2002 (2002-01-10)	1-26
	abstract	
	WO 02 076118 A (SIGNALSOFT CORP) 26 September 2002 (2002-09-26)	1-26
	abstract	
	WO 02 078378 A (MAKOWSKI WOJCIECH ;ALTERNIS (FR))	1-26
	3 October 2002 (2002–10–03)	
	abstract	
:		
	•	

Information on patent family members

_	
PCT/US	02/15969

				101/00 02/1000			
Patent doc cited in searc			Publication date		Patent family member(s)		Publication date
US 60029	36	A	14-12-1999	AU	2990799	Δ	27-09-1999
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	14 12 1333	CN	1300515	Ť	20-06-2001
				DE	69902641	D1	02-10-2002
				DE			
					69902641		30-01-2003
				EP	1062825		27-12-2000
				WO	9946947	A1	16-09-1999
WO 00271	143	Α	11-05-2000	US	6321092	B1	20-11-2001
				AU	1339400	Α	22-05-2000
				BR	9914975	A	02-04-2002
				EP	1133883		19-09-2001
				WO.	0027143		11-05-2000
				US	2002077119		20-06-2002
							20-00-2002
WO 00047	730	Α	27-01-2000	AU	5220199		07-02-2000
				BR	9912270		05-06-2001
				CA	2337508	A1	27-01-2000
				ΕP	1099354	A1	16-05-2001
				WO	0004730	A1	27-01-2000
WO 00726	 510	 А	30-11-2000	US	6175740	R1	16-01-2001
NO 00/20	710	^	30 11 2000	AU	5006100		12-12-2000
				EP	1183882		06-03-2002
				WO	0072610		30-11-2000
US 60788	318	Α	20-06-2000	AU	750064	B2	11-07-2002
				ΑU	2902699	Α	27-09-1999
				DE	19983027	TO	26-04-2001
				GB	2352365	A,B	24-01-2001
				JP	2002507105	T	05-03-2002
				WO	9946949	-	16-09-1999
WO 01319			03-05-2001	AU	1221601		00 OF 2001
MO 0121;	703	A	03-05-2001		1321601		08-05-2001
				WO	0131965		03-05-2001
				SE	9903918	A 	28-06-2001
WO 0203	093	Α	10-01-2002	FI	108372		15-01-2002
				AU	8215701		14-01-2002
				WO	0203093		10-01-2002
		•	-	US	2002019698		14-02-2002
WO 0207	 6118	Α	26-09-2002	US	2002193121	Δ1	19-12-2002
#U UZU/	0110	^	20-03-2002	US	2002193121		
							05-09-2002
			·~	WO	02076118		26-09-2002
	B378	Α	03-10-2002	FR	2822629	A1	27-09-2002
WO 0207					02078378		